APPENDIX N BULK MILK TANKER SCREENING TEST FORM

Charm SL (raw bovine and caprine) and SL-6 (raw bovine) Beta-Lactam Tests

GENERAL REQUIREMENTS

SAMPLES 2. See Appendix N General Requirements (GR) form item 9 APPARATUS & REAGENTS 3. Equipment a. Strip Incubator, 56±1°C SL Beta-lactam test; 45±2°C SL-6 Beta-lactam Test 1. Level. Temperature checked daily (day of use), records maintained
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$45\pm2^{\circ}$ C SL-6 Beta-lactam Test 1. Level. Temperature checked daily (day of use),
2. Thermometer, for each incubator (App N GR #3)
3. Lid closed (spring ajar), when not running tests
4. Incubator Temperature:
4. Incubator remperature
 B. ROSA Reader or equivalent with print out or download of data. ROSA Reader V1.07 or higher for SL-6, or equivalent capable of reading 3 line test, Manual Available Serial Number:
 Calibrators - 2 for each assay- 2 lines for SLBL and/or 3 lines for SL-6.
Range(s) Two Line: Low: High
Three Line:
Low:

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		2.	Calibrator serial numbers match ROSA reader SN		
		3.	Do not proceed if out of range. Manufacturer should be contacted for corrective actions		
		4.	Printer or computer link for hardcopy download		
		5.	Records maintained		
	c.	_	pettor- 300 µL and disposable tips, calibrated see App. N GR item 7)		
	d.	d. Or single use 300 µL poly-pipet with overflow bulb to accurately measure amount of sample, supplied by manufacturer (screening only)			
	e.	Opt	tional Timer - if not built into Incubator		
	f.	Bet	tional Centrifuge (Not applicable to SL-6 ta-lactam Test)- mini or equivalent (1200- 00 x g) for frozen controls		
4.	Rea	eagents			
	a.	Tes	st Strips		
		Lot Rec	t #: Exp. Date:by		
	b.	Positive Control			
		1.	Lyophilized or tablet 5 ppb Penicillin G for SL Beta-lactam Test		
			Lot #: Exp Date:		
		2.	Lyophilized or tablet 5ppb Penicillin G/10ppb cloxacillin for SL-6 Beta-lactam Test		
			Lot # Exp. Date:		
	c.	Nega	ative Control -		
		1.	Previously negative tested raw milk (item 5b)		

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5.	Rea	gent stability	
	a.	SL-6 reagents received refrigerated.	
	b.	Reagents stored at $0-4.4^{\circ}\text{C}$, maintain no longer than manufacturer's expiration date	
	C.	Negative Control - raw milk tested -600 or more negative with SL Beta-lactam Test or -400 or more negative with SL-6 Beta-lactam	
	Test Value: Do not proceed if out of range.		
		1. Used within 72 hours when maintained at $0-4.4^{\circ}\text{C}$	
		2. Test for suitability each time, records maintained	
		3. Or, frozen immediately (within 6 hours) and stored in a non-frost-free freezer, or in a styrofoam container in a frost free freezer, for no more than 2 months at -15°C or below	
		Lab Date prep: Lab Exp. Date:	
		 a. For SLBL ONLY, not applicable to SL-6 thaw, centrifuge 3 minutes, cool and use within 24 hours. Do not refreeze. 	
	d. Positive Control- Manufacturer supplied, maintain no longer than manufacturer's expiration date		
		1. Reconstituted with Negative Control (raw milk), used within 48 hours when maintained at $0-4.4^{\circ}C$	
		 Test for suitability each time prepared and/or day of use, must produce +400 or greater reading, records maintained. 	
		Test Value: Do not proceed if out of range.	
		3. Or, frozen immediately (within 6 hours) and stored in a non-frost-free freezer, or in a styrofoam container in a frost-free freezer, for no more than 2 months at -15°C or below	

		Lab Date prep: Lab Exp. Date:	
		 a. Thaw, centrifuge 3 minutes(not applicable to SL-6 Beta-lactam Test), cool and use within 24 hours. Do not refreeze. 	
		TECHNIQUE	
6.	Dai	ly Performance and Operation Check	
	a.	See App. N GR item 10)	
	b.	Reader Versions 1.5 and higher, use Escape 5 reader function to enter performance monitor mode of reader-reference manual for directions	
	c.	Check Calibrators, records maintained	
	d.	Controls give appropriate readings in performance monitoring mode (reader version 1.05 and higher) prior to any sample analysis. If out of range, manufacturer should be contacted for corrective action, 800-343-2170.	
	e.	Do not proceed if out of range.	
7.	Tes	t Procedure	
	a.	Label Test Strips, one for each test sample and each control	
	b.	Place strip into appropriate incubator, avoid crushing sample compartment. For multiple samples, complete steps b-f for each sample/control, before starting test of next sample.	
	c.	While holding strip flat, peel (to 'peel to here' line) back plastic to expose sample pad compartment	
	d.	Mix milk sample or control 25 times in seven seconds with a 1 ft movement or vortex control for 10 seconds when appropriate	

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e.	samp line	ole e on	pipette 300 µL sample to either side of the pad compartment(if applicable, use etched incubator as location guide). Avoid contact ge with pipet tip.	
	1.	300	w up sample, avoiding foam and bubbles.(with ul calibrated pipet only pre-wet tip by elling sample and drawing up again)	
	2.	Or :	for Screening only use poly pipet	
		a.	While holding poly pipet almost vertically with bulb side pointing down, depress top bulb and insert into sample (below foam).	
		b.	Release bulb and sample should completely fill pipet shaft and overflow into bottom 1/2 of lower bulb	
		c.	Pipet sample in pipet shaft by depressing top bulb only into test strip while leaving excess sample in overflow bulb	
f.	Re-s	seal	plastic firmly around sample pad compartment	
g.	Repeat Step 7b-f for each sample and/or control test strip in incubator			
h.	Close and latch incubator cover. If no automatic timer in incubator, set timer for 8 minutes, do not exceed 10 minutes			
i.	At end of incubation, visually inspect C (Control) line, an absent C line or a partial C line or an indistinct C line indicates an invalid test and the sample/control must be re-tested			
j			only valid test(s) in ROSA reader (set to iate channel.	
	1.	SLB:	L slow blink for SL Beta-lactam Test	

2. SLBL rapid Blink for SL-6 Beta-lactam Test

	k.	Press ENTER, reading and interpretation appear in 5 seconds, read strips within 10 minutes of completion of incubation	
8.	Int	erpretation with ROSA Reader	
	a.	If there is a negative or zero reading on the reader, sample is Negative (NF)	
	b.	If there is a positive reading on the reader, sample is an Initial Positive	
9.		firmation of Initial Positive Samples (see . N GR item 11)	
10.	Rep	orting (see App. N GR item 12).	
	a	Reader tapes or computer print outs maintained	